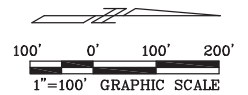




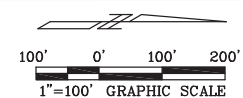
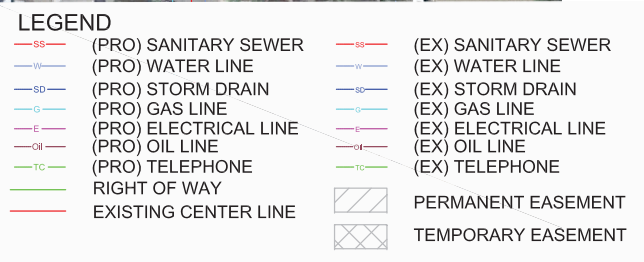




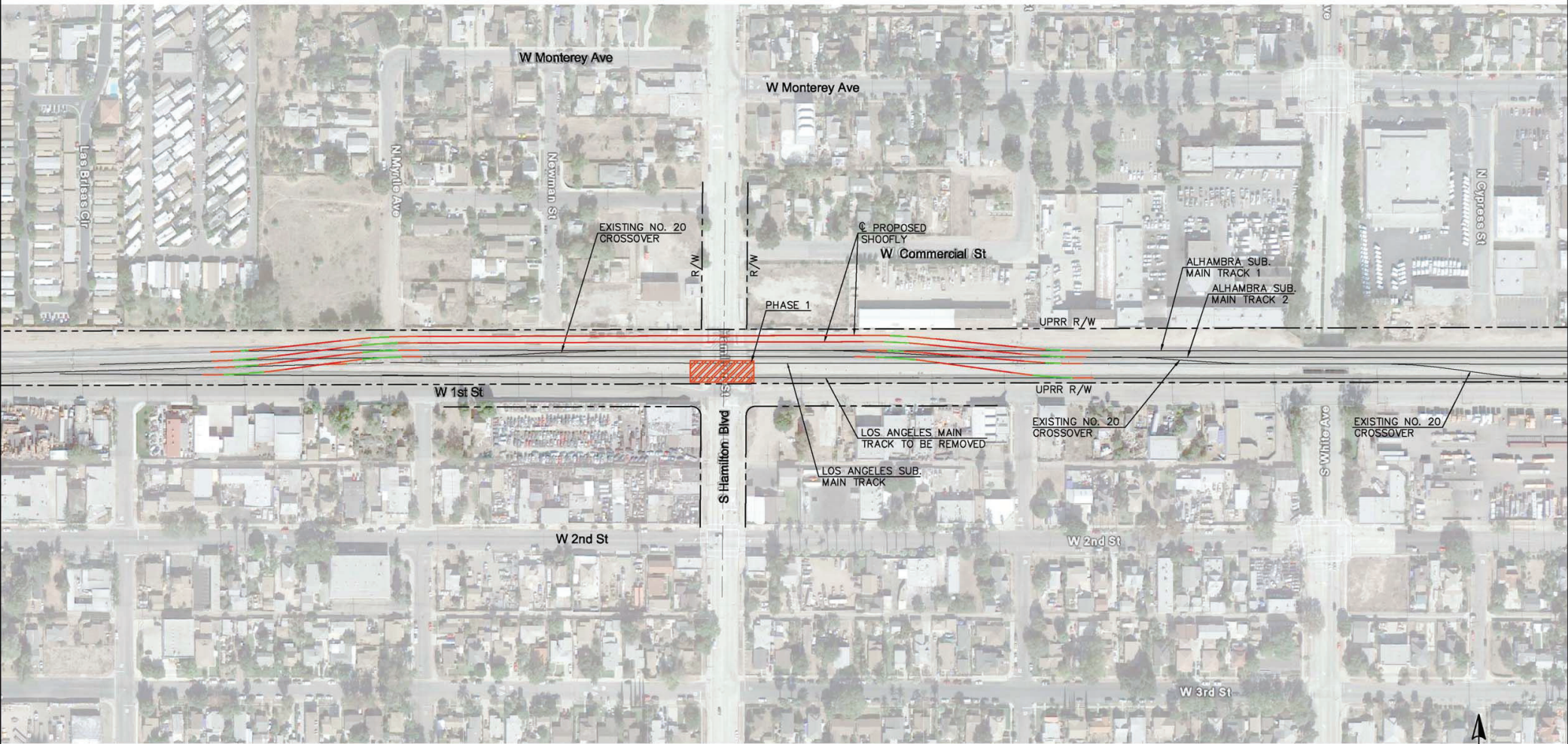
- LEGEND**
- SS SANITARY SEWER
  - W WATER LINE
  - SD STORM DRAIN
  - G GAS LINE
  - E ELECTRICAL LINE
  - O OIL LINE
  - T TELEPHONE
  - RIGHT OF WAY
  - EXISTING CENTER LINE







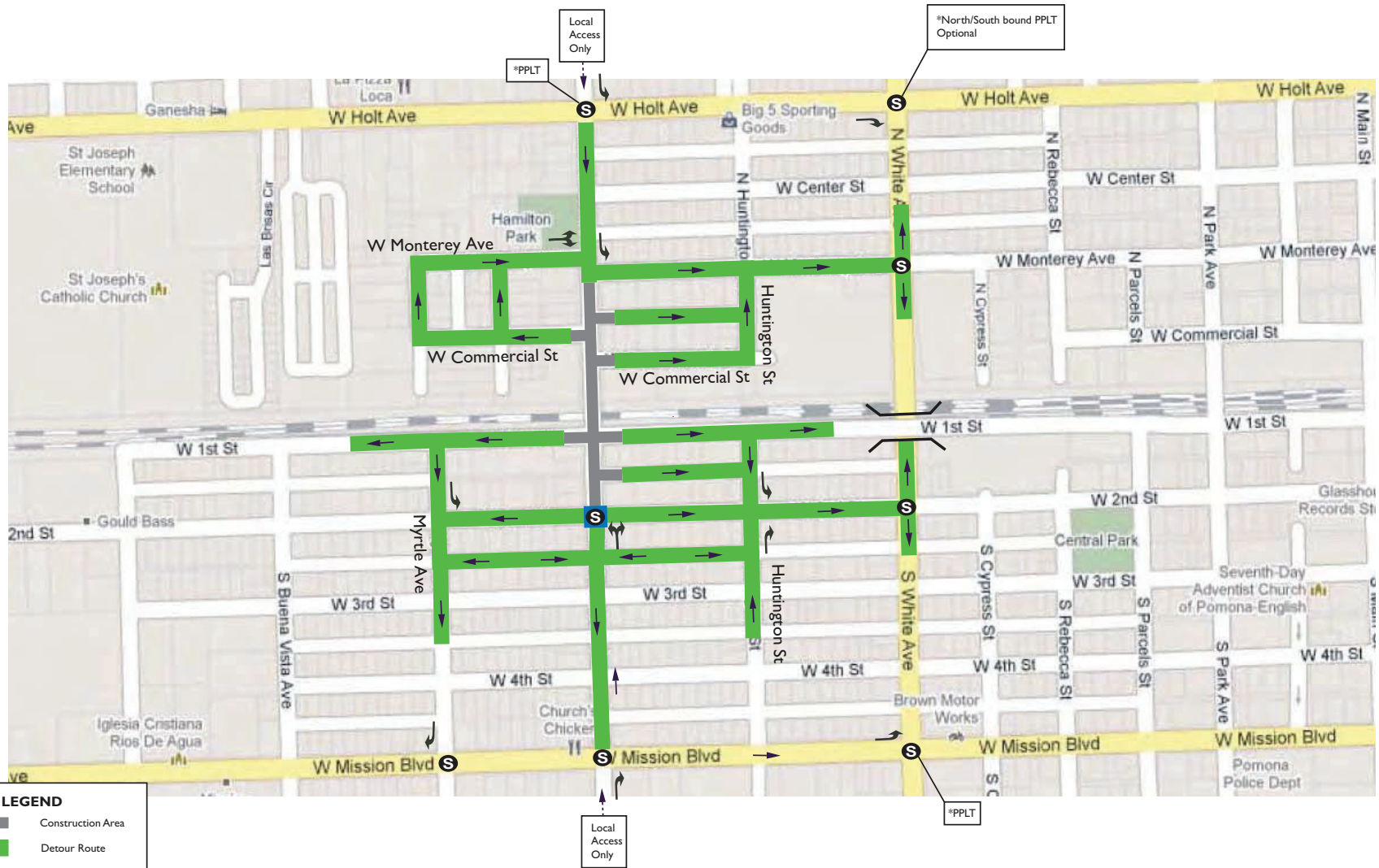
















#### LEGEND

-  Construction Area
-  Detour Route
-  Temporary Closure
-  Signalized Intersection

\* Signal modified for the construction period



ACE Phase II Grade Separation Conceptual Cost Estimate Details

WORK DESCRIPTION-HAMILTON BOULEVARD UNDERPASS	EST. QTY	UNIT	UNPRICE	TOTAL PRICE
<b>CIVIL CONTRACTOR</b>				
<b>Civil / Grading / Drainage</b>				
Mobilization / Demolization ( 8% Civil )	1	LS	\$ 1,630,521	\$ 1,630,521
Cleaning & Grubbing ( 3% Civil )	1	LS	\$ 611,445	\$ 611,445
Traffic ( 7% Civil )	1	LS	\$ 1,426,706	\$ 1,426,706
Earth Work - Cut	5,389	CY	\$ 40	\$ 215,560
Earth Work - Fill	0	CY	\$	\$ -
Civil Work ( C & G, AC, SW, SD, Etc )	1	LS	\$ 4,820,000	\$ 4,820,000
Environmental	1	LS	\$ 300,000	\$ 300,000
<b>Crossings</b>				
Remove Existing Panels	1	LS	\$ 9,800	\$ 9,800
New Crossing Panels	1	LS	\$ 550,000	\$ 550,000
<b>TOTAL</b>		<b>\$</b>	<b>9,564,031</b>	
<b>Structural</b>				
Soldier Pile Lagging Wall ( Bridge )	35,198	SF	\$ 96	\$ 3,379,008
Soldier Pile Lagging Wall ( Walkway )	17,600	SF	\$ 70	\$ 1,232,000
Railing at Retaining Walls	2,368	LF	\$ 35	\$ 82,880
Excavation	59,828	CY	\$ 45	\$ 2,692,260
Bridge Cost	1	LS	\$ 3,000,000	\$ 3,000,000
<b>TOTAL</b>		<b>\$</b>	<b>10,386,148</b>	
<b>Utilities</b> <small>Note 1 &amp; 2</small>				
Relocation	1	LS	\$ 4,100,000	\$ 4,100,000
<b>CIVIL TOTAL</b>				<b>\$ 24,050,179</b>
<b>UNION PACIFIC RAILROAD</b>				
<b>Track Work</b>				
(Shoofly Track)				
Install New Track	4,800	LF	\$ 350	\$ 1,680,000
Remove Track	4,200	LF	\$ 120	\$ 504,000
Shift track		LS	\$ 225	\$ -
signal work	1	LS	\$ 2,000,000	\$ 2,000,000
existing crossover work	1	LS	\$ 250,000	\$ 250,000
<b>Crossings</b>				
Remove Crossing House and Gate	1	LS	\$ 50,000	\$ 50,000
New Temporary Crossing House and Gates Removal and Retrogramming of Temporary Crossings Detour Road	1	EA	\$ 500,000	\$ 500,000
<b>UPRR TOTAL</b>				<b>\$ 4,984,000</b>
		<b>SUB TOTAL</b>	<b>\$</b>	<b>29,034,179</b>
<b>PROJECT COST</b>				
<b>CIVIL / STRUCTURAL ENGINEERING</b>				
Geotechnical Investigation ( 3% Construction )	1	LS	\$ 871,025	\$ 871,025
Survey / Aerial Mapping ( 2% )	1	LS	\$ 580,684	\$ 580,684
Design & Design Support ( 10% Construction )	1	LS	\$ 2,903,418	\$ 2,903,418
Right-of-Way-Acquisitions <small>Note 3,4 &amp; 5</small>	1	LS	\$ 9,266,292	\$ 9,266,292
Construction Management (10% Construction )	1	LS	\$ 2,903,418	\$ 2,903,418
Agency Cost ( 16% construction ) <small>Note 6</small>	1	LS	\$ 4,645,469	\$ 4,645,469
Program Management ( 8% Construction ) <small>Note 7</small>	1	LS	\$ 2,322,734	\$ 2,322,734
Flagging ( 6% Construction )	1	LS	\$ 1,742,051	\$ 1,742,051
Permitting / City Requirement ( 1% Construction )	1	LS	\$ 290,342	\$ 290,342
<b>SUB TOTAL PROJECT COST</b>				<b>\$ 25,525,432</b>
ROW Acquisitions			\$ 9,266,292	\$ 54,559,612
<b>TOTAL</b>				<b>\$ 13,587,996</b>
CONTINGENCY		30%		
<b>GRAND TOTAL</b>			<b>\$</b>	<b>68,147,608</b>
				<small>note 8</small>

- Notes**
- Utility relocation cost estimates assume all affected utilities (sewer and storm drain) can be relocated by gravity flow systems similar to the existing systems.
  - Cost for drainage item includes construction of one storm drain pump station at the project area.
  - Right of way cost estimates are based on \$100/SF which covers the land and building allowance for full takes or areas affected by part takes.
  - Right of way costs do not include any associated relocation costs or severance damages to the business operators.
  - Right of way costs include a 26% allowance, for acquisition costs (appraisals, negotiation labor, legal, closing costs, etc.)
  - Agency costs include agency project management, direct labor and agency indirect costs.
  - Program management costs include third party project support costs such as community outreach, environmental management, DBE and labor compliance, and property survey.
  - This estimate is prepared using construction cost information based on current dollar cost as of 2011.



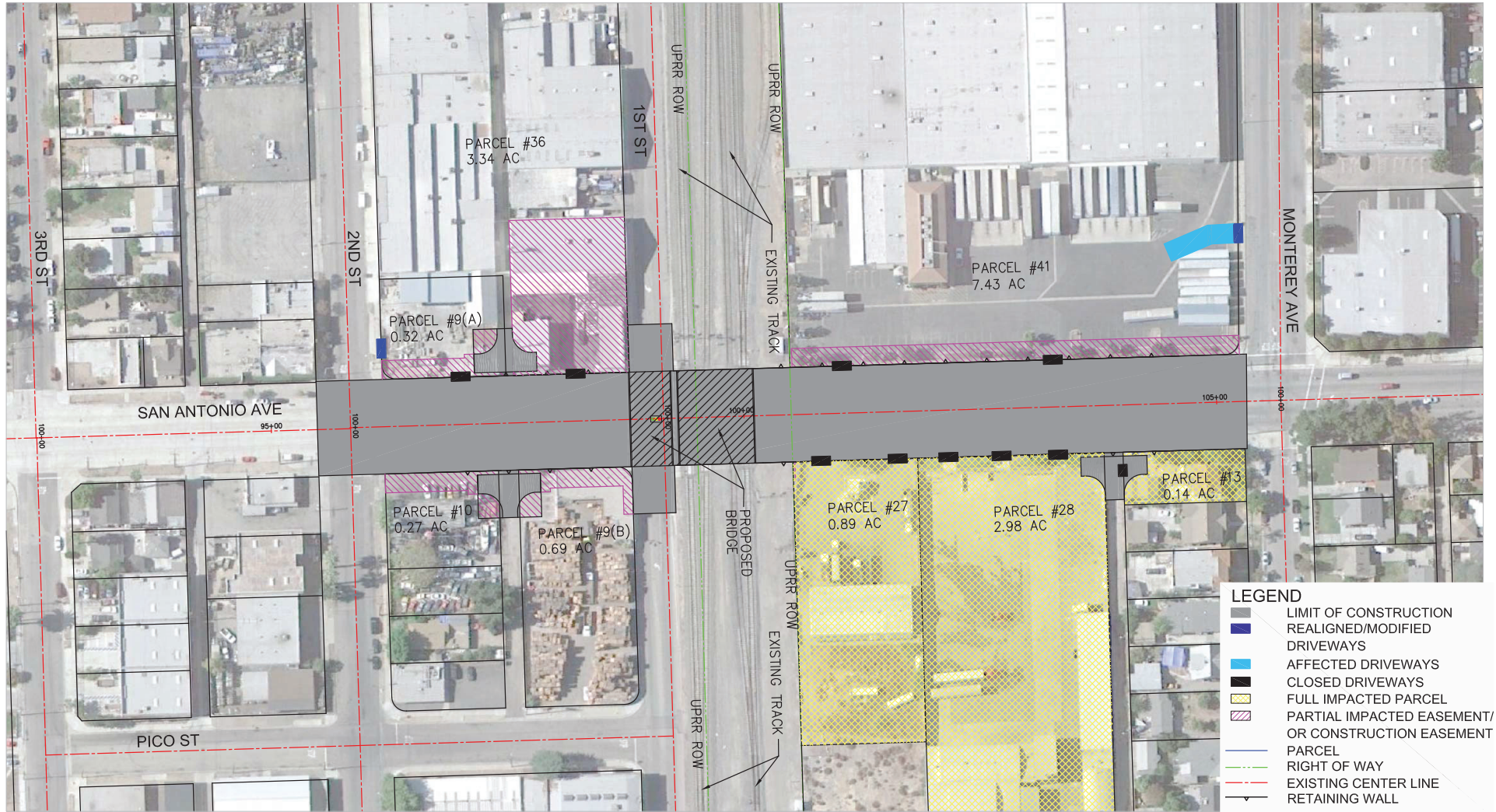


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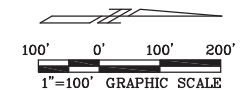
## APPENDIX P

### SAN ANTONIO AVENUE AT LOS ANGELES/ALHAMBRA SUBDIVISION

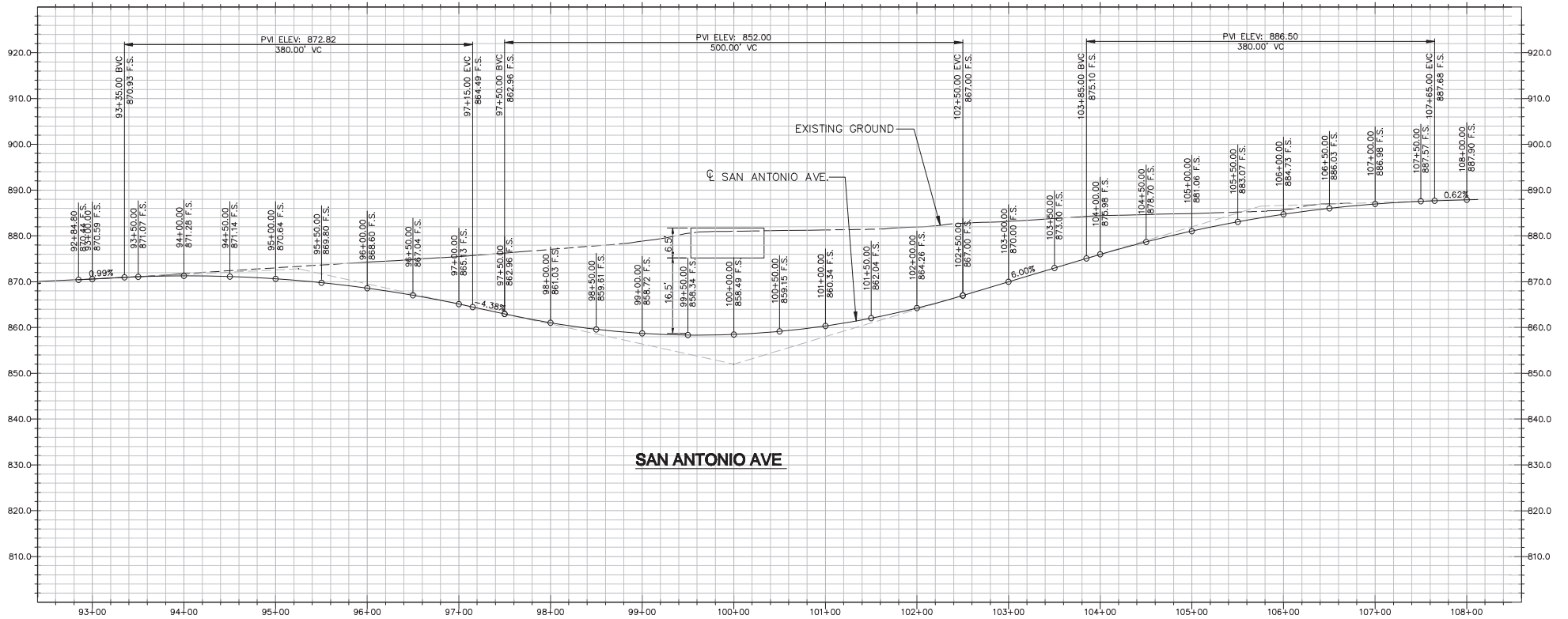
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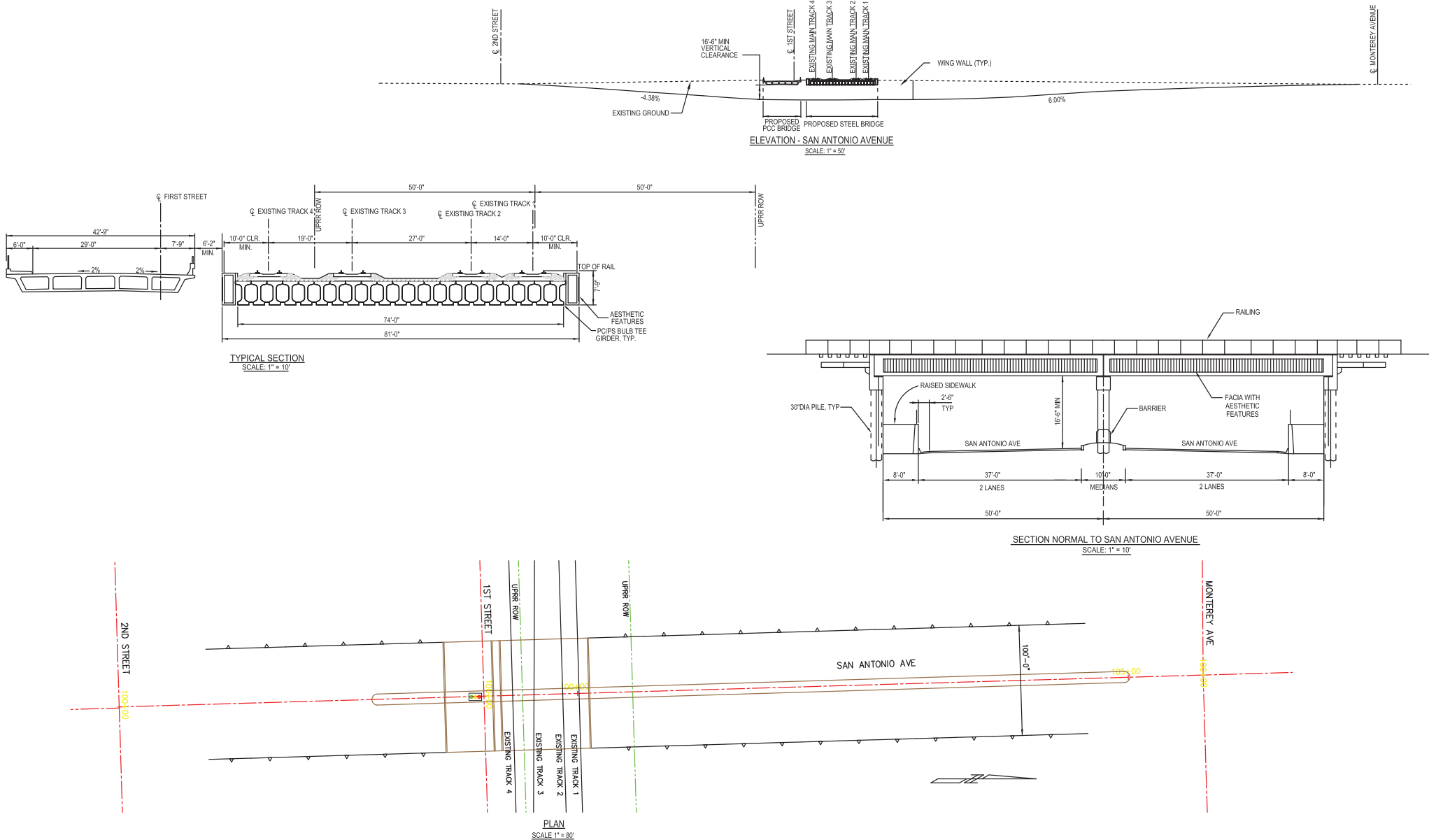


- LEGEND**
- LIMIT OF CONSTRUCTION
  - REALIGNED/MODIFIED DRIVEWAYS
  - AFFECTED DRIVEWAYS
  - CLOSED DRIVEWAYS
  - FULL IMPACTED PARCEL
  - PARTIAL IMPACTED EASEMENT/ OR CONSTRUCTION EASEMENT
  - PARCEL
  - RIGHT OF WAY
  - EXISTING CENTER LINE
  - RETAINING WALL









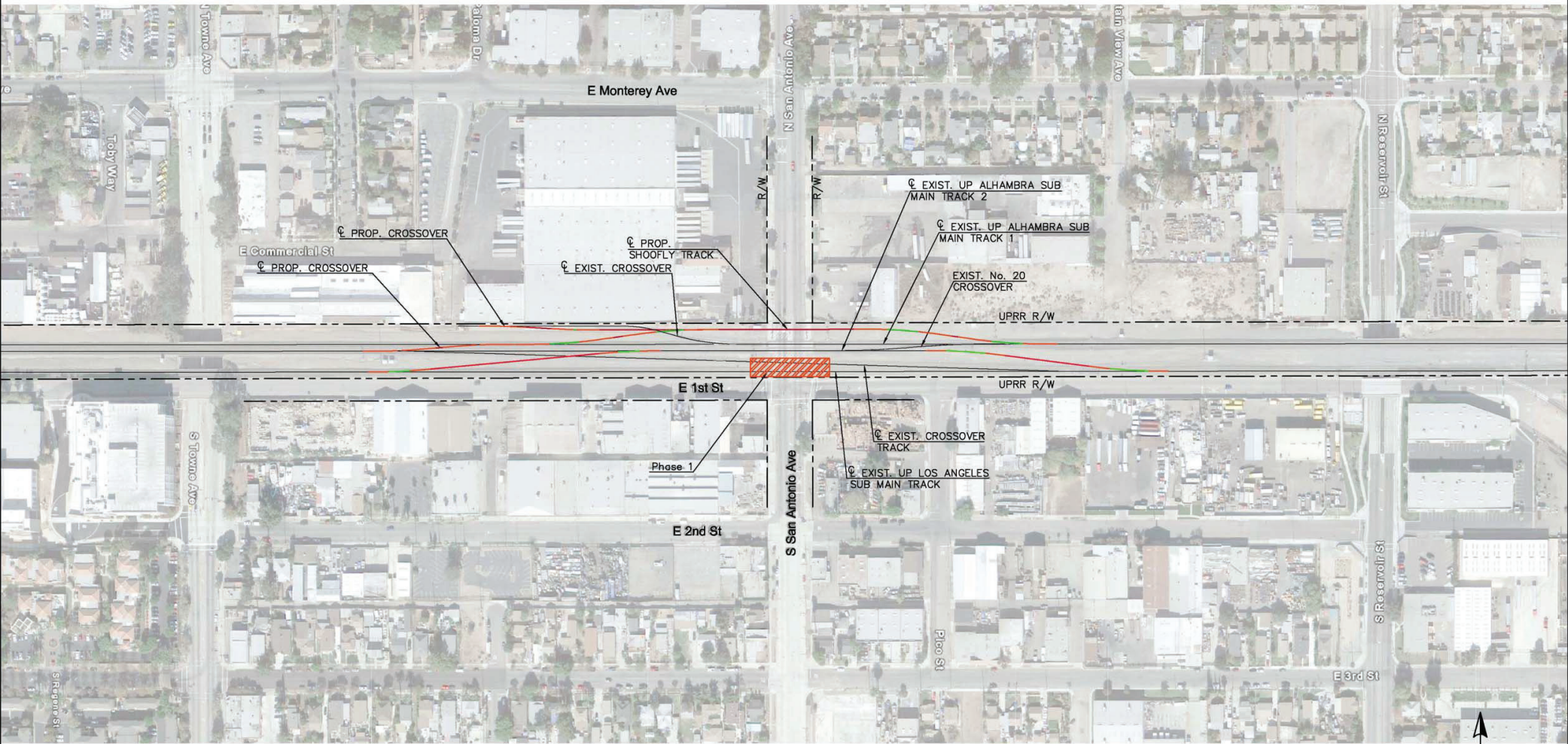






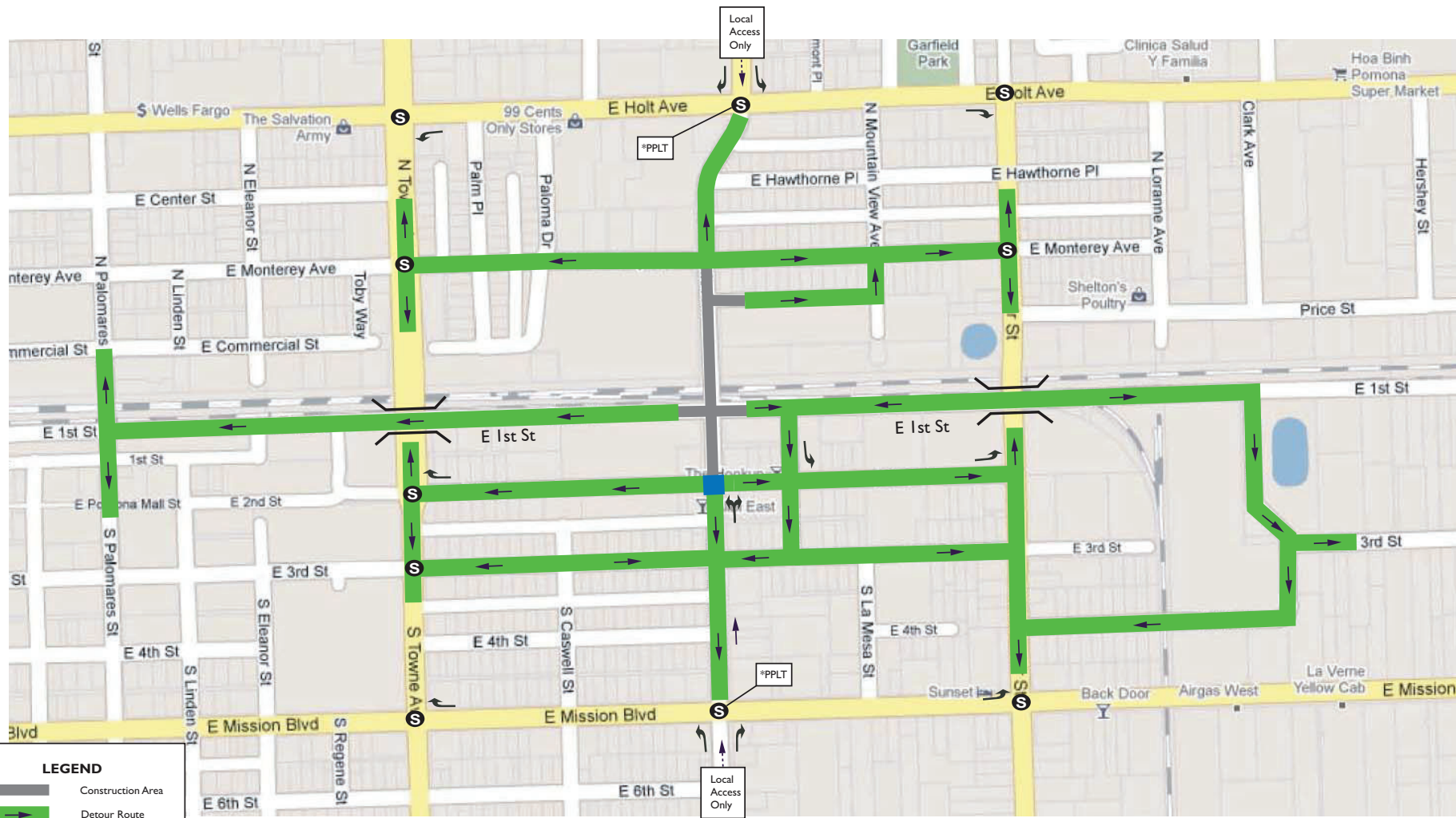












**LEGEND**

- Construction Area
- Detour Route
- Temporary Closure
- Signalized Intersection

\* Signal modified for the construction period





ACE Phase II Grade Separation Preliminary Cost Estimate				
WORK DESCRIPTION-SAN ANTONIO AVENUE UNDERPASS	EST. QTY	UNIT	UNIPRICE	TOTAL PRICE
<b>CIVIL CONTRACTOR</b>				
<b>Civil / Grading / Drainage</b>				
Mobilization / Demolization ( 8% Civil )	1	LS	\$ 1,569,650	\$ 1,569,650
Cleaning & Grubbing ( 3% Civil )	1	LS	\$ 588,619	\$ 588,619
Traffic ( 7% Civil )	1	LS	\$ 1,373,443	\$ 1,373,443
Earth Work - Cut	5478	CY	\$ 40	\$ 219,120
Earth Work - Fill	0	CY	\$	\$ -
Civil Work ( C & G, AC, SW, SD, Etc.)	1	LS	\$ 4,520,000	\$ 4,520,000
Environmental	1	LS	\$ 300,000	\$ 300,000
<b>Crossings</b>				
Remove Existing Panels	1	LS	\$ 8,000	\$ 8,000
New Crossing Panels	1	LS	\$ 288,000	\$ 288,000
<b>TOTAL</b>			<b>\$ 8,866,832</b>	
<b>Structural</b>				
Sodier Pile Lagging Wall ( Bridge )	35,200	SF	\$ 96	\$ 3,379,200
Sodier Pile Lagging Wall ( Walkway )	17,600	SF	\$ 70	\$ 1,232,000
Railing at Retaining Walls	2,380	LF	\$ 35	\$ 83,300
Excavation	59,800	CY	\$ 45	\$ 2,691,000
Bridge Cost	1	LS	\$ 3,000,000	\$ 3,000,000
<b>TOTAL</b>			<b>\$ 10,385,500</b>	
<b>Utilities <sup>Note 1 &amp; 2</sup></b>				
Relocation	1	LS	\$ 3,900,000	\$ 3,900,000
<b>CIVIL TOTAL</b>				<b>\$ 23,152,332</b>
<b>UNION PACIFIC RAILROAD</b>				
<b>Track Work</b>				
(Shoofly Track)				
Install New Track	3,950	LS	\$ 350	\$ 1,382,500
Remove Track	4,100	LS	\$ 120	\$ 492,000
Shift track		LS	\$ 225	\$ -
signal work	1	LS	\$ 2,000,000	\$ 2,000,000
existing crossover work	1	LS	\$ 220,000	\$ 220,000
<b>Crossings</b>				
Remove Crossing House and Gate	1	LS	\$ 50,000	\$ 50,000
New Temporary Crossing House and Gates Removal and Reprogramming of Temporary Crossings Detour Road	1	EA	\$ 500,000	\$ 500,000
<b>UPRR TOTAL</b>				<b>\$ 4,644,500</b>
			<b>SUB TOTAL</b>	<b>\$ 27,796,832</b>
<b>PROJECT COST</b>				
<b>CIVIL / STRUCTURAL ENGINEERING</b>				
Geotechnical Investigation ( 3% Construction )	1	LS	\$ 833,905	\$ 833,905
Survey / Aerial Mapping ( 2% )	1	LS	\$ 555,937	\$ 555,937
Design & Design Support ( 10% Construction )	1	LS	\$ 2,779,683	\$ 2,779,683
Right-of-Way-Acquisitions <sup>Note 3, 4 &amp; 5</sup>	1	LS	\$ 27,057,618	\$ 27,057,618
Construction Management (10% Construction)	1	LS	\$ 2,779,683	\$ 2,779,683
Agency Cost ( 16% construction) <sup>Note 6</sup>	1	LS	\$ 4,447,493	\$ 4,447,493
Program Management ( 8% Construction ) <sup>Note 7</sup>	1	LS	\$ 2,223,747	\$ 2,223,747
Flagging ( 6% Construction )	1	LS	\$ 1,667,810	\$ 1,667,810
Permitting / City Requirement ( 1% Construction)	1	LS	\$ 277,968	\$ 277,968
			<b>SUB TOTAL PROJECT COST</b>	<b>\$ 42,623,844</b>
			<b>TOTAL</b>	<b>\$ 70,420,675</b>
			<b>CONTINGENCY</b>	<b>\$ 13,008,917</b>
			<b>GRAND TOTAL</b>	<b>\$ 83,429,592</b>

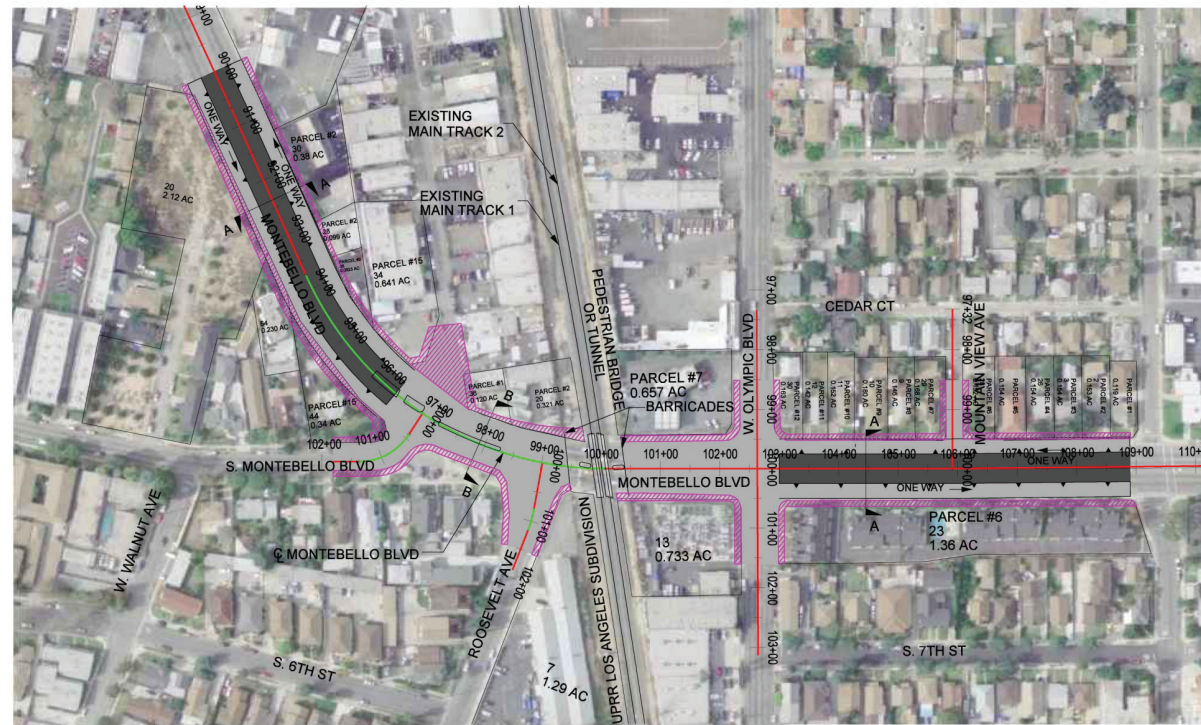
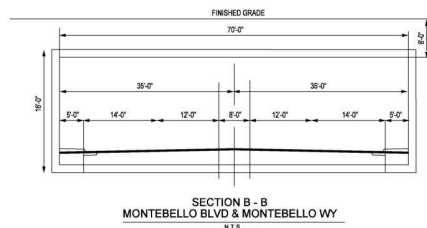
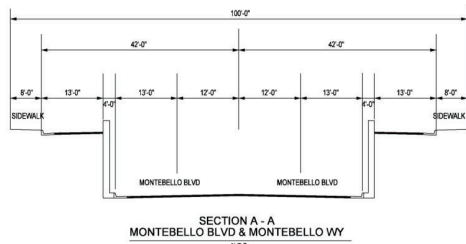
## Notes

1. Utility relocation cost estimates assume all affected utilities (sewer and storm drain) can be relocated by gravity flow systems similar to the existing systems.
2. Cost for drainage item includes construction of one storm drain pump station at the project area.
3. Right of way cost estimates are based on \$100/SF which covers the land and building allowance for full lakes or areas affected by part lakes.
4. Right of way costs do not include any associated relocation costs or severance damages to the business operators.
5. Right of way costs include a 25% allowance, for acquisition costs (appraisals, negotiation labor, legal, closing costs, etc.)
6. Agency costs include agency project management, direct labor and agency indirect costs.
7. Program management costs include third party project support costs such as community outreach, environmental management, DBE and labor compliance, and property survey.
8. This estimate is prepared using construction cost information based on current dollar cost as of 2011.

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**APPENDIX Q**  
**MONTEBELLO OPTIONS**

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Source: JL Patterson & Associates, Inc.